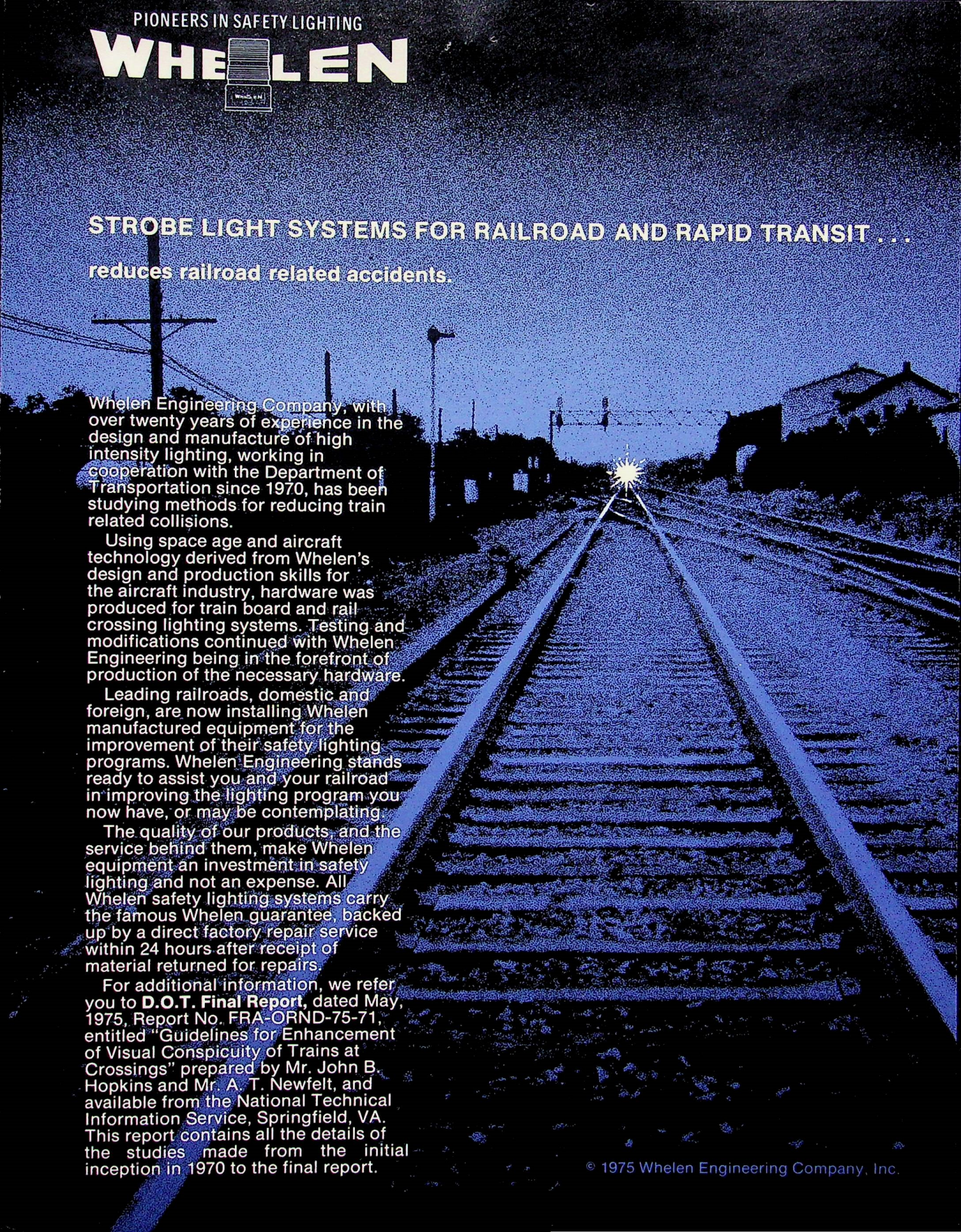
PIONEERS IN SAFETY LIGHTING

WHELEN

STROBE LIGHT SYSTEMS FOR RAILROAD AND RAPID TRANSIT . . .

reduces railroad related accidents.



Whelen Engineering Company, with over twenty years of experience in the design and manufacture of high intensity lighting, working in cooperation with the Department of Transportation since 1970, has been studying methods for reducing train related collisions.

Using space age and aircraft technology derived from Whelen's design and production skills for the aircraft industry, hardware was produced for train board and rail crossing lighting systems. Testing and modifications continued with Whelen Engineering being in the forefront of production of the necessary hardware.

Leading railroads, domestic and foreign, are now installing Whelen manufactured equipment for the improvement of their safety lighting programs. Whelen Engineering stands ready to assist you and your railroad in improving the lighting program you now have, or may be contemplating.

The quality of our products, and the service behind them, make Whelen equipment an investment in safety lighting and not an expense. All Whelen safety lighting systems carry the famous Whelen guarantee, backed up by a direct factory repair service within 24 hours after receipt of material returned for repairs.

For additional information, we refer you to **D.O.T. Final Report**, dated May, 1975, Report No. FRA-ORND-75-71, entitled "Guidelines for Enhancement of Visual Conspicuity of Trains at Crossings" prepared by Mr. John B. Hopkins and Mr. A. T. Newfelt, and available from the National Technical Information Service, Springfield, VA. This report contains all the details of the studies made from the initial inception in 1970 to the final report.

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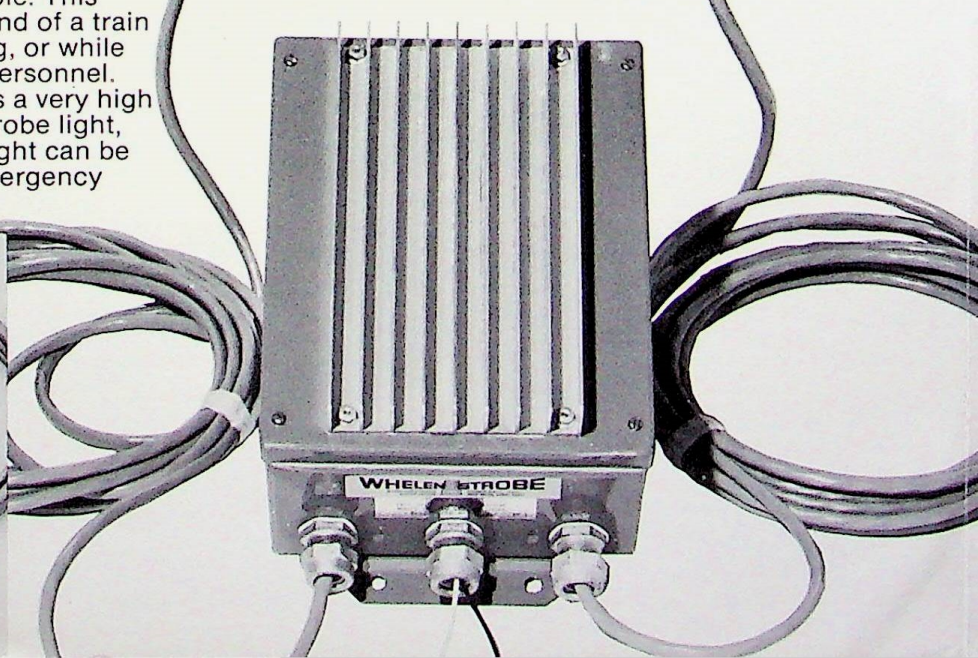
FRONT END STROBE LIGHT SYSTEMS

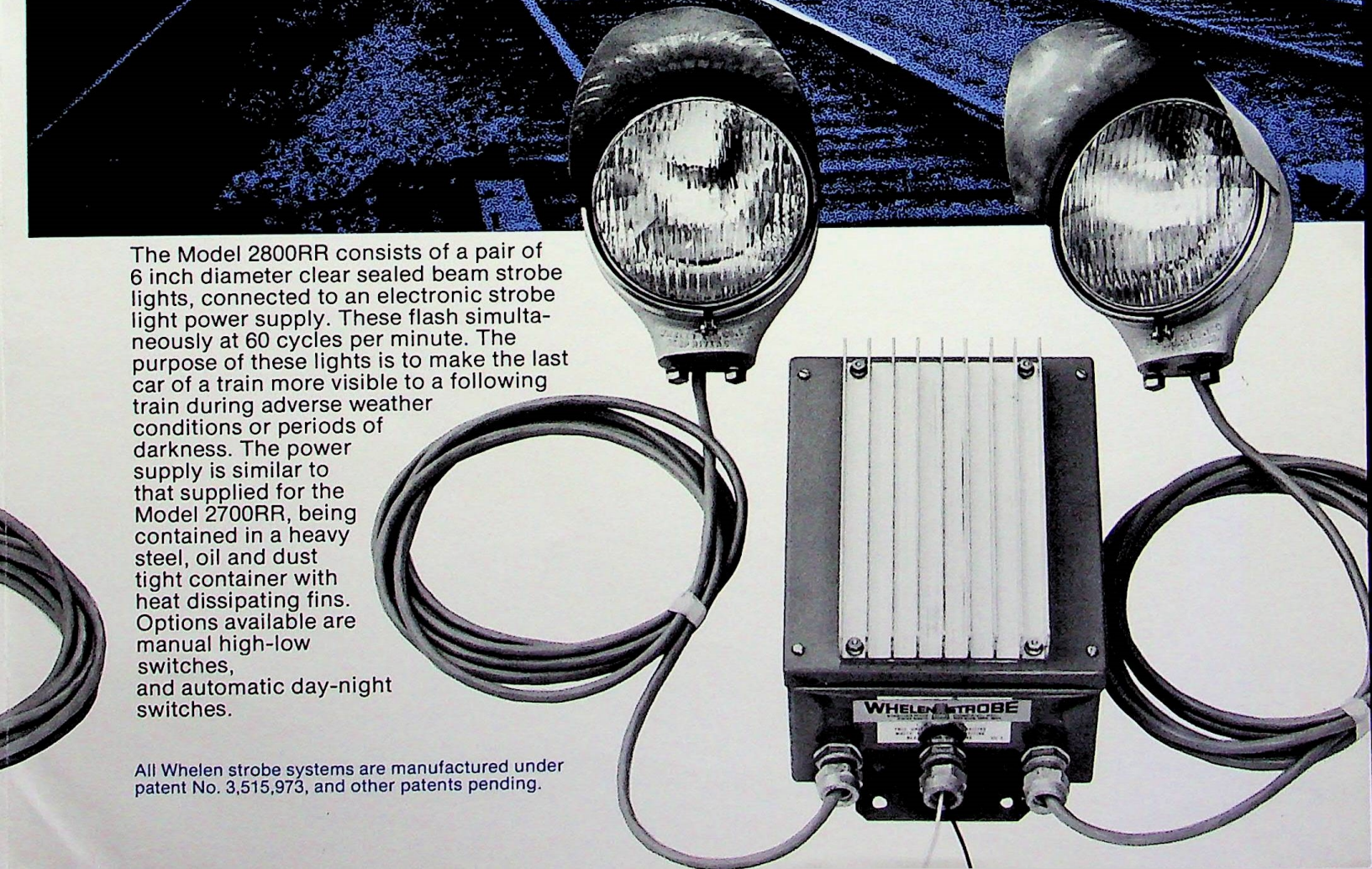
Optic lenses of unbreakable Lexan / Flash tubes of plug-in design for ease of maintainance / No moving parts in system insures long effective life / Electronic strobe power supply encased in oil and dirt tight heavy steel container provides a clean environment for the electronics / Effective heat dissipation fins to allow long life/ Power supply is equipped with surge and over-voltage protection for reliable operation on railroad usage / Standard railroad voltages are available.

The Model 2700RR consists of a pair of alternate firing 360° strobe lights producing 1100 effective candlepower, flashing 120 flashes per minute combined. A three level light intensity control is available. This system provides total visibility of the front end of a train in all angles of approach to a grade crossing, or while working in a rail yard for the protection of personnel. A second option is available, which includes a very high intensity, 4000 effective candlepower red strobe light, directional to the front of the engine. This light can be keyed into the brake system, and has an emergency override.



TRAILING END STROBE LIGHT SYSTEMS

The Model 2800RR consists of a pair of 6 inch diameter clear sealed beam strobe lights, connected to an electronic strobe light power supply. These flash simultaneously at 60 cycles per minute. The purpose of these lights is to make the last car of a train more visible to a following train during adverse weather conditions or periods of darkness. The power supply is similar to that supplied for the Model 2700RR, being contained in a heavy steel, oil and dust tight container with heat dissipating fins. Options available are manual high-low switches, and automatic day-night switches.



All Whelen strobe systems are manufactured under patent No. 3,515,973, and other patents pending.

AUXILIARY CROSSING STROBE LIGHT SYSTEMS

All Whelen strobe systems are manufactured under patent No. 3,515,973, and other patents pending.

Model 2800RRC-10 consists of a strobe power supply and two PAR 64 sized sealed beam strobe light heads. This system is used to modify existing railroad grade crossing facilities, and is currently being used as a supplement, or auxiliary set, mounted above or below the existing set of grade crossing lights. Strobe lights produce a very effective high intensity warning light to alert oncoming traffic. Whelen Engineering offers many design applications for specific railroad crossing installations.

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WHELEN

ENGINEERING COMPANY, INC.

DEEP RIVER, CONNECTICUT 06417

TELEPHONE: (203) 526-5308

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